MCD-CM600(GB) 12/4/03 5:21 PM Page 43

SAMSUNG

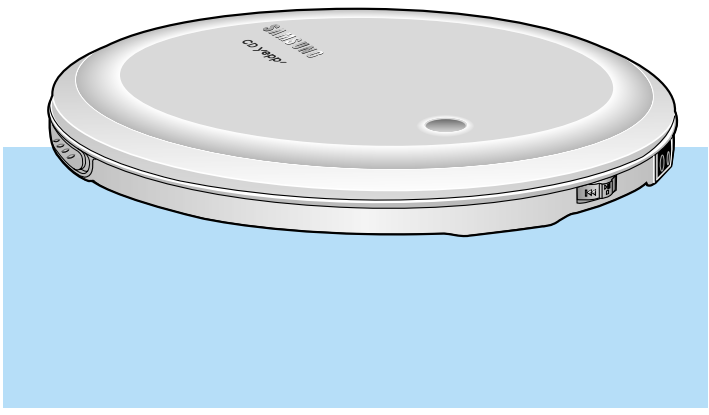
Portable MP3-CD Player

MP3-CD, WMA-CD, Ogg-CD

MCD-CM600 S/W/B

Instruction Manual

SAMSUNG ELECTRONICS



AH68-01358B

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Main Features

What is MP3?
MP3 means MPEG1 Layer 3, the global standard for audio signal compression technology. It uses digital compression technology to compress original sound data by up to 12 times without sound quality degradation.

What is WMA?
WMA (Windows Media Audio) is a file format, created by Microsoft, that offers a higher compression rate and just as good sound quality as MP3.
Typical MP3 files are about one-tenth the size of the original, whereas WMA files are about half the size of standard MP3.

What is Ogg Vorbis?
Ogg Vorbis is a new digital audio compression format that is similar to MP3.
It is supposed to have better audio quality and compression than MP3.

Multi Format Music File Support
CDs created in various audio file formats, such as MP3, WMA, Ogg, etc., can be played.

Firmware Upgrade Capability
The firmware can be upgraded to support new features, formats, and enhancements. For information on firmware upgrades, please visit: www.samsungyepp.com.

Lyrics Display Function
Lyrics can be added to songs by using the supplied lyrics editor and displayed on the built-in LCD display during playback.

Menu Setup
All settings can easily be adjusted to users' preferences.

Navigation Function
Any file stored on a CD can be searched easily and played back quickly.

FM Radio Reception
All available FM radio stations can be searched automatically and up to 15 of your favorite stations can be preset.

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Safety Warning

Take care not to allow dust or other contaminants to come into contact with your player.

Do not apply heavy pressure to the player.

Do not leave your player in direct sunlight or near a heat source.

Do not put anything other than a CD (CD-R or CD-RW) inside your player.

- Such actions will damage your player.

Do not use broken or scratched MP3 CDs.

Do not use your player on uneven or unstable surfaces.

- Your player may not operate properly.

Unplug the power cord when not using the player for long periods of time.

Do not touch the AC Adaptor with wet hands when it is plugged in.

Avoid places of low temperature (below 5°C) or high temperature (above 35°C).

Do not touch the lens with your finger or scratch it.

- Your player may not operate properly.

Do not place your player in a dusty or humid location.

Do not attempt to take apart, repair or modify your player.

- Such actions will damage your player.

Earphones

Road safety

- Do not use the earphones while riding a bicycle, driving any kind of motor vehicle or motorcycle.
  This is very dangerous and is illegal in certain regions.
  It is dangerous to listen to earphones at high volume while crossing roads.

In order to protect your hearing

- Do not wear the earphones with the volume set too high.
  Doctors state that listening to music at high volume for prolonged periods is harmful to hearing.
- If you experience a ringing in your ears, reduce the volume or stop listening.

Ambient operating conditions

- Ambient temperature : 5°C~35°C (41°F~95°F)
- Humidity : 10~75%

Environmental information

- Your unit consists of materials which can be recycled if disassembled by a specialized company. Please observe local regulations regarding the disposal of packing materials, exhausted batteries and old equipment.

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
PRODUCTO LASER CLASE 1

- Use of controls adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

- **CLASS 1 LASER PRODUCT**
  This Compact Disc player is classified as a CLASS 1 LASER product.
- CAUTION-INVISIBLE LASER RADIATION WHEN OPEN AND INTER LOCKS DEFEATED, AVOID EXPOSURE TO BEAM.

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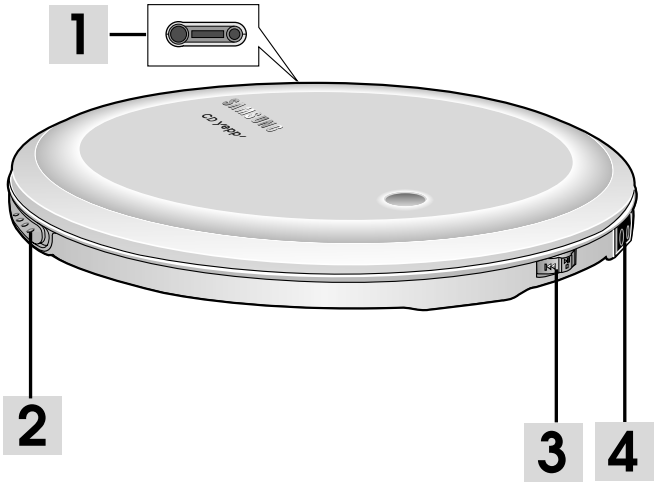
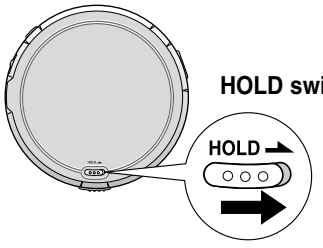
Buttons and Controls

Main Unit

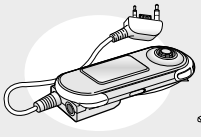


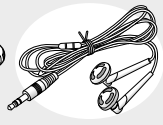
1. **Remote control Connection jack**
2. **OPEN switch**
3. **•PLAY/PAUSE button**
   •SKIP button
   •STOP button
   •VOLUME button
4. **AC Adaptor & External Battery Pack Connection jack**

Bottom of the Main Unit

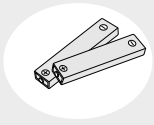


Accessories

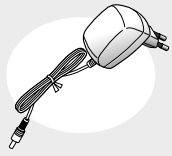

Remote Control

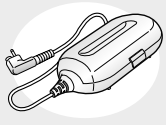

Earphones

Lyrics Pro Installation CD


Rechargeable Batteries (Ni-MH: 1350mAh 1.2V) x 2

Carrying Case


AC adaptor


External battery pack

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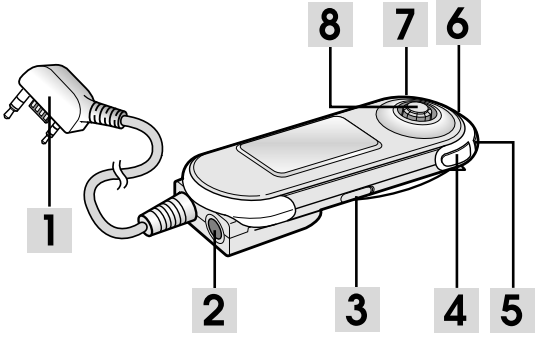
Buttons and Controls

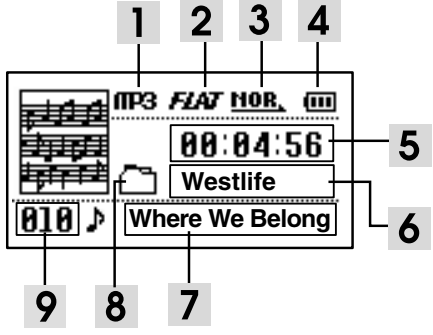
Remote Control



1. Main Unit connection jack
2. Earphone jack
3. HOLD switch
4. • +10 button
   - FM button (FM)
5. • SRS button
   • STEREO/MONO button (FM)
   - AUTO MEMORY button (FM)
6. • NAVI. button
   - MENU button
   • PRESET button (FM)
7. • B.MARK button
   • MEMORY button (FM)
8. • SEL button
   • VOLUME button
   • PLAY/PAUSE button
   • SKIP/SEARCH button
   • STOP button

Display

* The picture of the display panel below is based on MP3(WMA)-CD playback.



1. File Format indicator
2. EQ/SRS indicator
3. • Normal Playback and Repeat Mode indicator
   • BOOKMARK Playback indicator
4. Remaining Battery Power indicator
5. Play Time indicator
6. Directory Name indicator
7. Title indicator
8. Directory indicator
9. Track Number indicator

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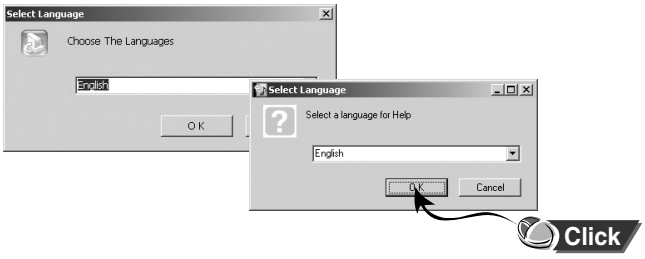
Installing Lyrics Pro

System Requirements

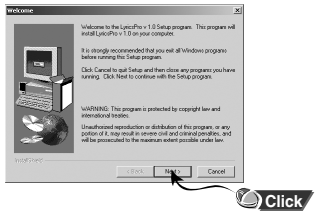
- Intel Pentium 500 MHz or higher processor
- Minimum 64 MB RAM
- 16-bit sound card or better
- VGA resolution or higher video adapter
- Minimum 200 MB free hard disk space

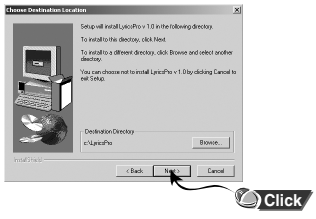
Installation Lyrics Pro

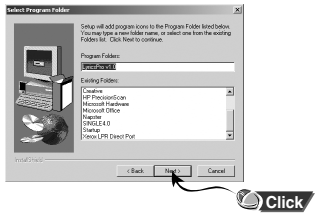
1 **Insert the Installation CD-ROM into your CD-ROM drive.**
Then the following screens appear.
Select a installation language and a language for Help.

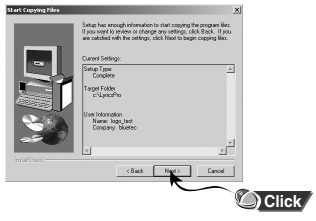


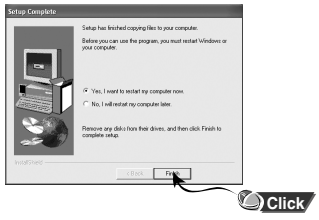
2 **Click [Next] in the series of windows that appear.**

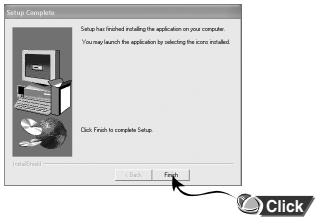












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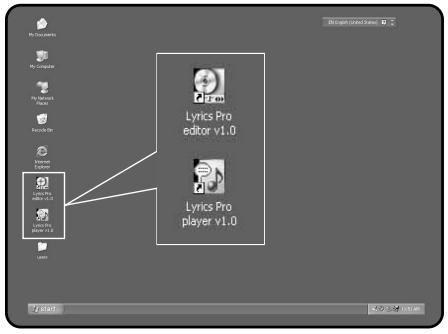
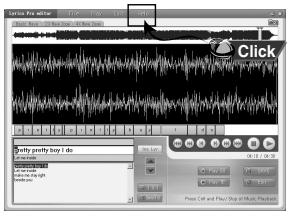
Installing Lyrics Pro

3 **After the installation is completed, two new icons will appear on your desktop.**

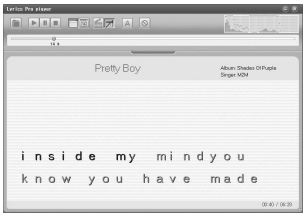


4 **Double-click the Lyrics Pro editor icon to add lyrics to songs or edit music files. Double-click the Lyrics Pro player to check the lyrics.**

• For detailed instruction on how to use these programs, please refer to Help.



[Lyrics Pro editor]



[Lyrics Pro player]

Preparation before using your unit

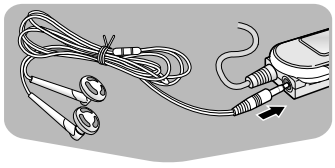
How to Connect

1 **Connect the AC adaptor to the power input jack. Then, connect the AC plug of the adaptor to the AC outlet.**

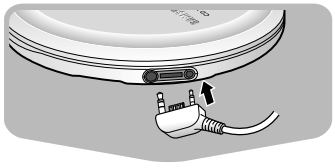
• Only use the AC adaptor supplied with your product.

➢ When you are not using this product, disconnect the AC adaptor from the AC outlet.

2 **Connect the earphones to the remote control.**



3 **Connect the main unit connection jack to the main unit.**



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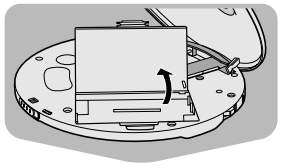
Preparation before using your unit

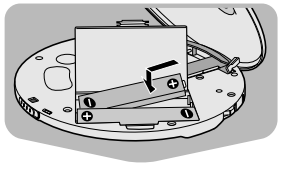
Using rechargeable batteries

1 **Open the cover of the battery compartment.**



2 **Insert the rechargeable batteries into the battery compartment.**

- Carefully check the correct orientation of the positive and negative terminals of the batteries.
- To remove the rechargeable batteries, push the negative (-) polarity side of the battery.



3 **An AC adaptor must be connected to the AC outlet and power input.**

- Charging of the rechargeable batteries will commence.

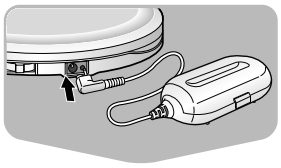
➢ AC adaptor : DC 4.5V, 500mA

Note

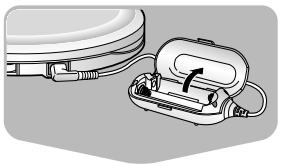
- **Full charge time: 10 hours**
- **Playtime when fully charged:**
  MP3-CD: 19 hours max (at volume level 20 and with the EQ set to FLAT)

Using standard batteries (not supplied)

1 **Attach the external battery pack as shown in the picture.**



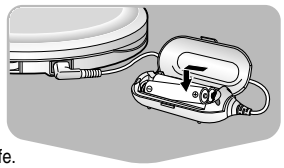
2 **Open the cover of the battery compartment.**



3 **Carefully check the correct orientation of the positive and negative terminals of the batteries.**

- Use two AA/LR6 type 1.5 V batteries.

➢ Use two AA/LR6 alkaline batteries.
Manganese batteries have a shorter battery life.



Battery Life (Using alkaline batteries)

Type	Rechargeable Batteries	Rechargeable Batteries + Battery Pack (type AA/R6)
MP3-CD	19 hours	45 hours

- The figures are based on continuous playback at volume level 20 and with the EQ set to FLAT.
- These AA/LR6 batteries are alkaline batteries.

Time for Battery Replacement

- Replace the batteries if the remaining battery power indicator " ▭ " flashes.
- Even though the remaining battery power indicator " ▭ " may be flashing, if the batteries have already expired, the LCD remote control will not be lit.

Warning

- The external battery pack cannot charge, as it does not have the capacity to charge.
- Standard batteries cannot be recharged.
- Do not mix old and new batteries.
- Remove the batteries if they will not be used for a long time.
- Remove the standard batteries when you use an AC adaptor.

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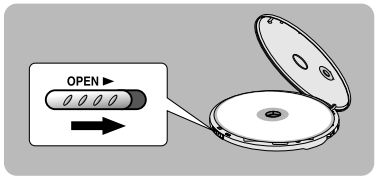
CD Playback

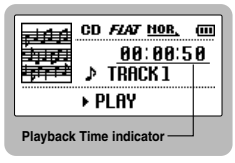
1 **Slide the OPEN button to open the door. Insert a CD.**

- Push the door to close it



2 **Press the PLAY/PAUSE (▶II) button.**

- Once the CD is recognized, playback commences.
- To pause playback, press PLAY/PAUSE (▶II). To resume playback, press PLAY/PAUSE (▶II) again.



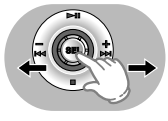
3 **To stop playback, press the STOP (■) button.**

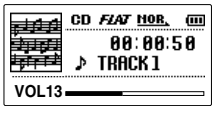
- Press and hold the STOP (■) button to switch off the unit.

➢ The power will automatically switch off after 20 seconds, even if you do not press the STOP (■) button.

To Adjust the Volume

- **Remote Control:** Press the SEL button to display volume bar. You can adjust volume level by pressing I◀◀, ▶▶I buttons.
- **Main Unit:** Press and hold the I◀◀, ▶▶I button to either direction to adjust the volume.

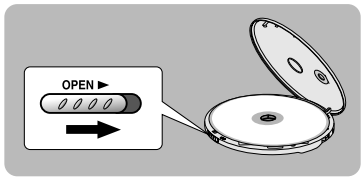




MP3-CD Playback

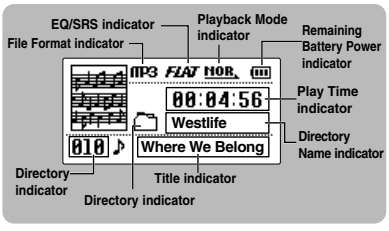
1 **Slide the OPEN button to open the door, and insert an MP3-CD.**

- Push the door to close it.



2 **Press the PLAY/PAUSE (▶II) button.**

➢ Your CD Player will take a few moments to scan through all the tracks and the sessions recorded on a MP3-CD.



3 **To stop playback, press the STOP (■) button.**

Note

- **If a music file is corrupted and a particular section cannot be read, only that section will be skipped. But if the file continues to be unreadable, the player will skip to the next file.**
- **Files that do not conform to specifications (refer to P. 42) will be skipped.**
- When the OPEN switch is slid to open the door, playback will stop.
- The quality of MP3-CD playback may vary depending on the condition of the disc containing the music files or the condition of the recorder with which the disc was created.
- If different types of files or unnecessary folders are on the same disc, you will have problems with playback.

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Skip/Search Function

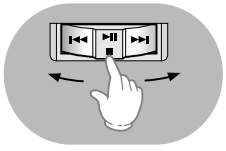
Skip function

Press the ⏮ or ⏭ button during playback of a CD.

(Use the ⏮ , ⏭ button on the remote control.)

- Press the ⏭ button to play the next track. Press the ⏮ button to go back to the beginning of the current track. (Briefly press the ⏮ button twice to repeat the previous track).
- Press the ⏭ button while the unit is in "Stop" (no playback) mode. Track 2 will be played back. Press the ⏮ button to play back the previous song.

Main Unit

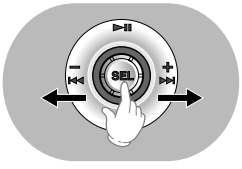


Search function

Press and hold ⏮ or ⏭ on the remote control.

- **Press and hold ⏮ or ⏭ on the remote control to search backward or forward.**
- **Release the button to resume normal playback.**

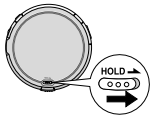
Remote Control



Hold Function

- Buttons pressed during CD playback will not function.
- Use the HOLD function when carrying your CD Player around with you. Use of this function will allow you to conserve battery life as it prevents the CD Player from being turned on if a button is pressed unintentionally.
- The remote control will still operate while the HOLD function on the main unit is active. When all the buttons on the main unit are locked, " 🔒 " will be displayed on the LCD display.
- The main unit will still operate while the HOLD function on the remote control is active. If you press a button while the Hold function on the remote control is active, " 🔒 HOLD" will be displayed on the LCD display.

Bottom of the Main Unit



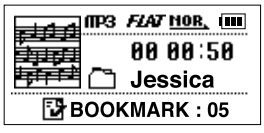
BOOKMARK Function

You can listen to your favorite songs in the order of your preference.

Setting the BookMark During Playback

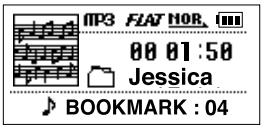
1 **During playback, press the B.MARK button.**

- The total number of songs with bookmarks will be displayed.



2 **To cancel the bookmark, locate the song from which you want to remove the bookmark, and then press the B.MARK button.**

- The bookmark will be canceled.



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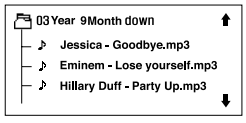
BOOKMARK Function

Setting the Navigation Bookmark

1 **Press the NAVI. button on the remote control.**

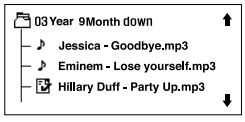
- Select the directory or file for which you want to set the bookmark.

- ⏮ : To go up to a higher directory.
- ⏭ : To go down to a lower directory or file.
- SEL : To go down to a lower directory.
- ⏯/⏹ : To go up or down.
- NAVI. : To exit to the display.



2 **Select the desired directory or file, and then press the B.MARK button.**

- A bookmark will be set.



Note

- If you bookmark a directory, all subdirectories and files will be bookmarked.
- To play back a bookmarked directory or file, go to the BOOKMARK on the main menu and select PLAY ON.

NAVIGATION Function

You can easily select and play any directory or file.

1 **Press the NAVI. button on the remote control.**

- When in stop mode, the root directory and subdirectories or files will be displayed.
- During playback mode, the file will be displayed.

2 **Use the directional buttons on the remote control to select the desired file.**

- ⏮ : To go up to a higher directory.
- ⏭ : To go down to a lower directory or file.
- SEL : To go down to a lower directory.
- ⏯/⏹ : To go up or down.
- NAVI. : To exit to the display.

3 **Press the SEL button.**

- The selected file will be played back.

Note

- If no button is pressed for 20 seconds while navigating, you will be exited to the display.

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SRS/+10 Function

You can enjoy a 3D sound with a sense of presence using the SRS, TruBass, and WOW functions.

Press the SRS button to select the desired setting.

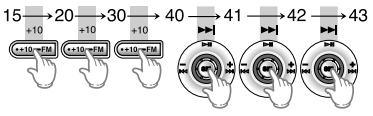
- **EQ** : The selected EQ mode will be used to play back music files.
- **SRS** : Select this for 3D surround sound.
- **TB** : Select this to boost bass for more realistic sound.
- **WOW** : This mode is a combination of SRS and TB.

Note

- SRS(●) WOW is a trademark of SRS Labs, Inc. WOW technology is incorporated under license from SRS Labs, Inc.

+10 function

- **Press the +10 button on the remote control.**
- **Press the +10 button briefly while playing back a CD. Playback will skip 10 tracks.**



Example : If you want to select track 43 during playback of track 15, press the +10 button three times, then press the ▶▶I button three times.

DIRECTORY Function

The directory structure allows users to quickly browse to any file on an MP3., WMA., or Ogg-CD for playback.

*** This function is available only when playing a CD with a directory structure.**

1 During playback or while in stop mode, press and hold the SEL button.

- The folder icon will change to " ".

2 Use the I◀◀, ▶▶I buttons to move to the desired directory.

- The song(s) in the directory will be played.
- If no button is pressed for 5 seconds or if you press the SEL button again, the directory function will be canceled.

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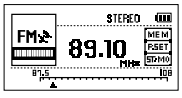
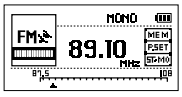
Listening to FM Radio

To select the desired radio station

1 **Press and hold the FM button on the remote control.**

- The frequency of the received station appears on the display.
- Briefly press the SRS button to select either STEREO or MONO.



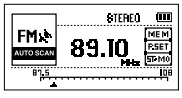


2 **Use the I◀◀ , ▶▶I buttons to tune in to a desired radio station.**

Automatic Tuning

Press and hold the I◀◀ or ▶▶I.

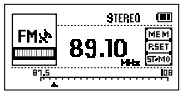
- Automatically scans and tunes to the next avaiable station.



Manual Tuning

Press the I◀◀ or ▶▶I.

- Press the button repeatedly to tune in the desired station manually.



3 **To turn off the radio, press and hold the STOP (■) button on the remote control.**

- Press the PLAY/PAUSE (▶II) button on the remote control to switch to CD mode.

Note

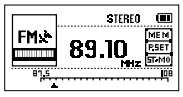
- The reception may not be clear in a weak signal area.
- If the reception of an FM station is weak, press the SRS button to switch to MONO for improved sound quality.
- Even if the reception mode is set to STEREO, if you are in a weak signal area, the mode will automatically switch to MONO.

Presetting Stations in Memory(Memory function)

* You can either manually or automatically preset and store FM stations.

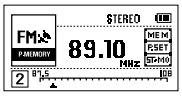
EXAMPLE: Storing an FM station at 89.10 MHz into preset number 2

1 **Tune into a station of 89.10 MHz, and then press the B.MARK button on the remote control.**



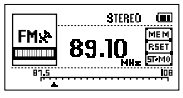
2 **Press the I◀◀ or ▶▶I to select the preset "P.MEMORY 2".**

- Each time the button is pressed a higher or lower preset number is selected.



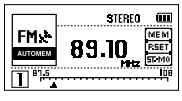
3 **Press the B.MARK button again to store the station.**

- The preset number disappears, indicating that the station has been stored.
- Repeat steps 1 to 3 to change the station or store other stations. You can preset up to 15 stations.



Auto Memory Function

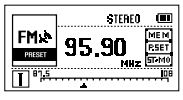
- **Press and hold the SRS button to store up to 15 of the received stations automatically.**



Tuning in to a Preset Station

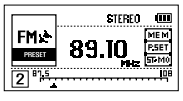
1 **If you have already stored stations into memory, press the NAVI. button on the remote control.**

- "PRESET" and the station frequency stored under that preset number appear on the display.



2 **Press the I◀◀ or ▶▶I to select the desired preset number.**

- "PRESET" remains, and the frequencies of the preset stations are displayed in turn.



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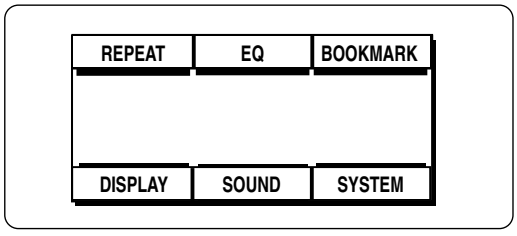
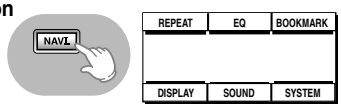
Selecting a Menu

• **Menu Structure**



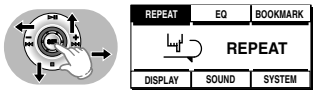
1 **Press and hold the NAVI. button on the remote control.**

• The main menu screen will appear.



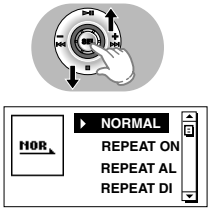
2 **Use the I◀◀, ▶▶I, ▶II, ■ buttons to select the desired menu, and then press the SEL button.**

• A list of functions will appear.



3 **Use the ▶II, ■ to select the desired menu or mode, and then press the SEL button.**

• Briefly press the NAVI. button to go back to the higher level menu.
• If no button is pressed for 20 seconds, you will be exited to the display.

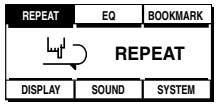


Note

• While the disc is being read or while in M mode, you will not be able to select a menu function.

REPEAT Function

1 **Select REPEAT from the main menu.**



2 **Use the ▶II, ■ to select the desired REPEAT mode.**

• Press the NAVI. button to go back to the higher level menu or to exit to the display.

Mode	Repeat Mode indicator	Bookmark Mode indicator	Description
NORMAL	NOR		- Plays all of the tracks on a CD once.
REPEAT ONE	ONE		- Repeatedly plays one song.
REPEAT ALL	ALL		- Repeatedly plays all of the tracks on a CD.
REPEAT DIRECTORY	DIR	—	- Repeatedly plays all of the songs in the selected directory.
SHUFFLE			- Plays all of the tracks on a CD in random order once.
REPEAT SHUFFLE			- Repeatedly plays all of the tracks on a CD in random order.
DIRECTORY SHUFFLE	DIR	—	- Plays all of the songs in the selected directory in random order once.
REPEAT DIRECTORY SHUFFLE	R.D	—	- Repeatedly plays all of the songs in the selected directory in random order.

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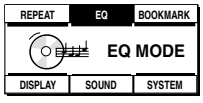
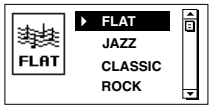
EQ/BOOKMARK On/Off Function

EQ (Equalizer) Function

1 Select EQ from the main menu.



2 Use the ▶II, ■ to select the desired EQ mode.

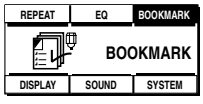


FLAT → JAZZ → CLASSIC

ROCK → POP

BOOKMARK On/Off Function

1 Select BOOKMARK from the main menu.



2 Use the ▶II, ■ to select the desired bookmark option.

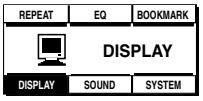
- **PLAY ON ( ): Plays in the order of bookmarks.**
- **PLAY OFF ( ): Plays the tracks on a CD in the order in which they were recorded.**
- **CLEAR LIST ( ): Cancels all bookmarks.**

Note

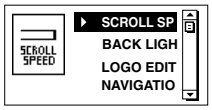
- Even if the B.MARK button is pressed longer during playback, music can be played in order of bookmark.

DISPLAY Setup

1 Select DISPLAY from the main menu.

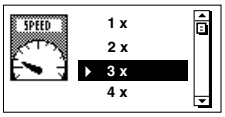


2 Use the ▶II, ■ to set the desired function.



SCROLL SPEED

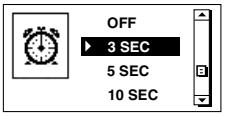
- You can adjust the scroll speed of the song titles.



• 1X : Scrolls at normal speed.	• 4X : Scrolls at four times the normal speed.
• 2X : Scrolls at two times the normal speed.	• 5X : Scrolls at five times the normal speed.
• 3X : Scrolls at three times the normal speed.	

BACK LIGHT

- You can set the backlight-on time.
- **OFF**: Turns off the backlight.
- **3 SEC** : Turns on the backlight for 3 seconds.
- **5 SEC** : Turns on the backlight for 5 seconds.
- **10 SEC** : Turns on the backlight for 10 seconds.



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DISPLAY Setup

LOGO EDIT

- **You can enter the text that will be displayed when the main unit is powered on.**

- **First line :** English capital letters
- **Second line :** English small letters
- **Third line :** Mathematical symbols and numbers
- **Fourth line :** Special characters
- **Fifth line :** Korean consonants and special characters
- **Sixth line :** Korean vowels and special characters

- Use the ▶II, ■, I◀◀, ▶▶I buttons to select the desired character, and then press the SEL button to enter the character.
- If you press the SRS button, the cursor will move to the input window. If you select the character you want to delete and press the SEL button, the character you entered will be deleted.
- After the input is complete, press the B.MARK button to save the logo text. When you turn on the power, your logo text will be displayed along with the "CD YEPP" logo.

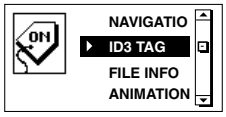
NAVIGATION

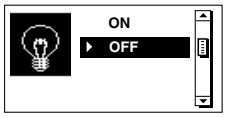
- You can select the file search method.
- **HIERARCHICAL:** Shows a hierarchical view of directories.
- **COLLAPSIBLE:** Lists all directories and subdirectories, regardless of their hierarchy.
- **FLAT:** Lists all songs on a CD, regardless of the directory structure.

DISPLAY Setup

ID3 TAG

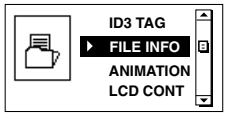
- **ON :** Displays the ID3 tag information of the current song.
- **OFF :** The ID3 tag information will not display.





FILE INFO

- Select FILE INFO to view information about the title, artist, genre, sampling rate, and bit rate of the file.
- If file information is not available, nothing will be displayed.



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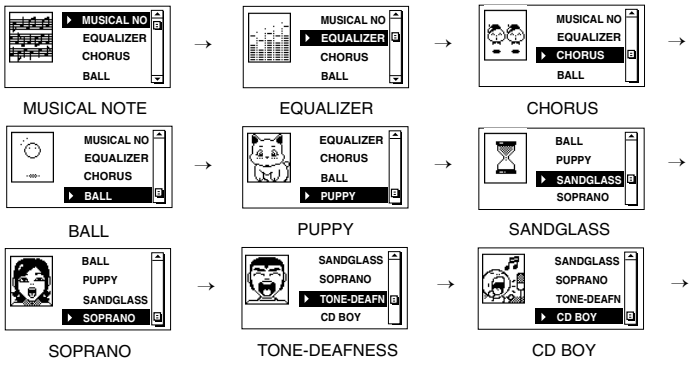
DISPLAY Setup

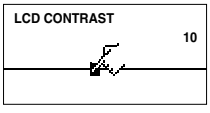
ANIMATION

- You can select the image that will be displayed during playback or when in stop mode.



LCD CONTRAST

- **The setting range of the contrast, which adjusts the brightness of the screen, is 0 to 18.**



LYRICS

- **ON** : Displays the lyrics of the current song.
- **OFF** : Lyrics will not be displayed.

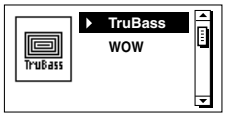
Note

- The lyrics that have been edited using a program other than the Lyrics Pro editor cannot be displayed.

SOUND Setup

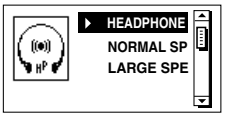
SRS ADJUST

- The setting range of the TruBass and WOW is 0 to 10.



SRS SPEAKER

- This will work only if you set the SRS function.
- **HEADPHONE:**
  Select this when using headphones.
- **NORMAL SPEAKER:**
  Select this when connecting to a regular sized external amplifier speaker.
- **LARGE SPEAKER:**
  Select this when connecting to a large sized external amplifier speaker.



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SOUND Setup

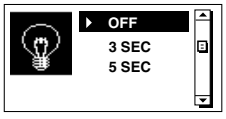
TAG AUTO EQ

- **ON:** Automatically switches the EQ to the setting contained in the tag information.
- **OFF:** Maintains the existing EQ mode.
- Refer to the table below for detailed EQ mode conversion information.

EQ MODE	TAG information
ROCK	CLASSIC ROCK, CHRISTIAN ROCK, ROCK, ALTERN ROCK, INSTRUMENTAL ROCK, SOUTHERN ROCK, ROCK & ROLL, HARD ROCK, FOLK-ROCK, GOTHIC ROCK, PROGRESSIVE ROCK, PSYCHEDELIC ROCK, SYMPHONIC ROCK, SLOW ROCK, PUNK ROCK, DEATH METAL
CLASSIC	CLASSIC, OPERA, CHAMBER MUSIC, SONATA, SYMPHONY
JAZZ	JAZZ, JAZZ+FUNK, ACID JAZZ
POP	POP, INSTRUMENTAL POP, POP-FOLK, DANCE, EURODANCE, DANCEHALL, DISCO, HIP-HOP

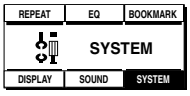
FADE IN

- This function gradually increases the volume level to protect your hearing from a sudden increase in sound volume.
- **OFF:** Plays at the selected volume level.
- **3 SEC:** Gradually increases the volume over a 3 second period.
- **5 SEC:** Gradually increases the volume over a 5 second period.

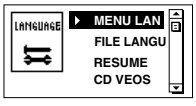


SYSTEM Function

1 **Select SYSTEM from the main menu.**



2 **Use the ▶II, ■ to set the desired function.**

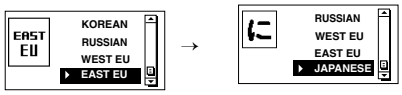


MENU LANGUAGE

- **Select the language in which the menus will be displayed.**

FILE LANGUAGE

- **Select the language in which the ID3 tag of music files will be displayed.**



- **Languages Supported**
  - Western Europe: Albanian, Catalan, Danish, Dutch, English, Faeroese, Finnish, French, Galician, German, Icelandic, Italian, Norwegian, Portuguese, Spanish, Swedish
  - Eastern Europe: Croatian, Czech, Estonian, Hungarian, Latvian, Lithuanian, Polish, Romanian, Slovak, Slovene
  - Cyrillic: Bulgarian, Byelorussian, Macedonian, Russian, Serbian, Ukrainian

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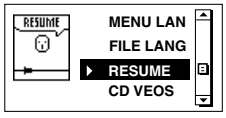
SYSTEM Function

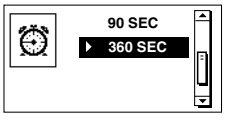
RESUME

- **ON:** Resumes playback from the last turn-off point.
- **OFF:** Plays the first track on the CD.



CD VEOS

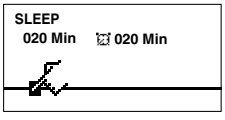
- This function prevents music from skipping during movement by buffering ahead in the data stream.
- For an Audio CD, you can select either 90 SEC or 360 SEC.
- 960 seconds of data stream for an MP3-CD and 1920 seconds for a WMA-CD will be buffered automatically.



Note What is VEOS(Verastile ESP Operating System)?
VEOS (Versatile ESP Operating System) combines the strengths of Memory Buffering and Fast Recovery System to store the contents of a CD in memory before playing back and to recover from CD skips in the shortest amount of time.

SLEEP

- Use this function to set the player to power off automatically after a preset time has elapsed.
- You can turn off the sleep timer or select from 10 to 120 minutes in 10 minute increment:
  OFF → 010 → • • • • • 120.



S/W VERSION

- You can check the software version.

DEFAULT

- **ON:** Initializes all settings to their default values.
- **OFF:** Maintains the existing settings.

Default Settings

- REPEAT : NORMAL
- EQ : FLAT
- BOOKMARK : PLAY OFF
- SCROLL SPEED : 3 X
- BACK LIGHT : 3 SEC
- NAVIGATION : HIERARICHICAL
- ID3 TAG : ON
- ANIMATION : MUSICAL NOTE
- LYRICS : OFF
- SRS ADJUST : TruBass 8
  WOW 8
- SRS SPEAKER : HEADPHONE
- TAG AUTO EQ : OFF
- FADE IN : OFF
- MENU LANGUAGE : ENGLISH
- FILE LANGUAGE : KOREAN
- RESUME : ON
- CD VEOS : 360 SEC
- SLEEP : OFF
- DEFAULT : NO
- VOL : 20

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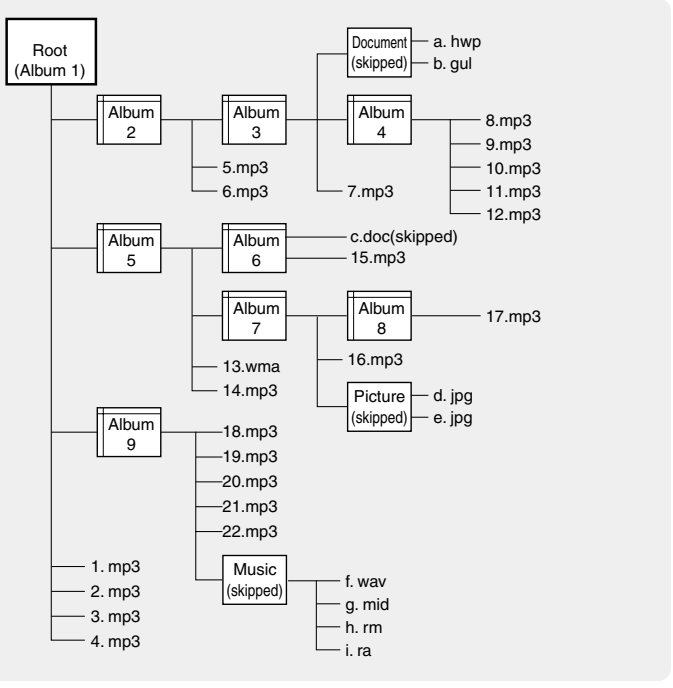
Features

Playback sequence of albums and tracks

• Albums containing only ".jpg", ".wav", or ".doc" files will be skipped and not played.

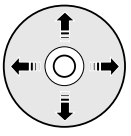


➢ The player can recognize up to about 980 files.

Precautions when using compact discs

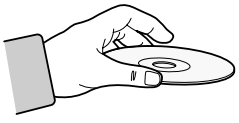
Looking after your CDs

Wash the disc with a neutral detergent diluted in water, and then wipe gently with a soft dry cloth from the center of the disc to the outside.



Handling your CDs

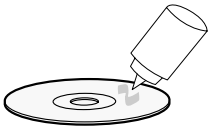
Carefully pick up the disc by its edge without touching the disc's surface.



Do not attach stickers to the signal surface (the side with shiny, rainbow colors).

Do not write on the labeled (printed) side with a ballpoint pen or a pencil.

Do not clean your CDs with record spray or anti-static. Do not use volatile chemicals such as benzene or thinners.



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Troubleshooting Guide

Problem	Check
Unit has no power.	• Did you insert the battery with the correct polarity? • Are the batteries drained? • Is the AC adaptor connected correctly? • Is the door open?
Playback does not function.	• Is the disc inserted correctly? • Is the disc damaged or deformed? • Has the unit been locked with the HOLD switch? • Has the unit been moved from a cold place to a hot place? Abrupt change of temperature may cause condensation to form on the lens. Keep your CD Player in a warm place until the condensation on the lens has disappeared.
Earphones don't work.	• Is the volume control on the unit at the minimum setting?
A sound or track is skipped.	• Was the unit jolted or knocked? • Is there dust, fingerprints or scratches on the disc?
Some of the MP3 files on a CD are not recognized.	• Make sure that the files have correct file name extensions.
Firmware cannot be upgraded.	• The CD door may have been open or power may have been disconnected during the upgrade. Burn the upgrade file onto a CD-ROM in ISO 9660 format and perform the upgrade again.

Specifications

Item	Description
* **Frequency range**	20Hz ~ 20KHz
* **Earphone output**	320mV(RMS), 6.4mW/CH, 16Ω
* **Signal/noise ratio**	90dB (1kHz)
* **Total harmonic distortion**	0.08% (1kHz, 0dB)
Format Support	CD-DA (8Cm/12Cm)
	CD-ROM Mode 1, Mode 2 Form 1
CD-R/RW Readability	ISO 9660, Joliet, Packet writing, UDF
	Romeo, Multi-session
File Support	MPEG 1 Layer 3, WMA, Ogg
Bit Rate	8kbps~320kbps (MP3)
	8kbps~192kbps (WMA)
FM Frequency Range	87.50MHz ~ 108.00MHz
FM S/N Ratio	58dB
FM Stereo Separation	30dB
Tag Support	ID3 VI, ID3 V2 2.0~2.4
Power Adapter	DC 4.5V 500mA
Internal Rechargeable Batteries	Two Square-shaped 1350 mAh Ni-MH Batteries
External Batteries	1.5V AA/LR6 type x 2
Dimensions	135.6(W) X 13.9(H) X 135.6(D)
Weight	150g

About File Compatibility

• Only MP3, WMA, and Ogg files with the correct file name extensions can be played back.

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